6AF3
HALF-WAVE VACUUM RECTIFIER

9-PIN MINIATURE TYPE

For television damper service

GENERAL DATA

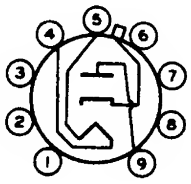
Electrical:

Heater, for Unipotential Cathode:		
Voltage (AC or DC)	6.3 ± 10%	volts
Current	1.2	amp
Direct Interelectrode Capacitances (Approx.):[o]		
Plate to cathode and heater	6	μμf
Cathode to plate and heater	9	μμf
Heater to cathode	2.8	μμf

Mechanical:

Operating Position	Any
Maximum Overall Length	3-9/32"
Maximum Seated Length	2-7/8" ± 1/8"
Diameter	0.750" to 0.875"
Dimensional Outline	*See General Section*
Bulb	T6-1/2
Cap	Skirted Miniature (JEDEC No.C1-2)
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9CB

Pin 1 – Internal Connection—Do Not Use♦
Pin 2 – Same as Pin 1
Pin 3 – Same as Pin 1
Pin 4 – Heater
Pin 5 – Heater
Pin 6 – Same as Pin 1
Pin 7 – Same as Pin 1
Pin 8 – Same as Pin 1
Pin 9 – Plate
Cap – Cathode



DAMPER SERVICE

Maximum Ratings, *Design-Maximum Values:*

For operation in a 525-line, 30-frame system□

PEAK INVERSE PLATE VOLTAGE	4500■	max.	volts
PEAK PLATE CURRENT	750	max.	ma
DC PLATE CURRENT	185	max.	ma
PLATE DISSIPATION	6	max.	watts
PEAK HEATER CATHODE VOLTAGE:			
Heater negative with respect to cathode	4500*	max.	volts
Heater positive with respect to cathode	300▲	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface)	210	max.	°C

Characteristics:

Tube-Voltage Drop for plate ma. = 340	30	volts

[o] Without external shield.

♦ Socket terminals 1,2,3,6,7, and 8 should not be used as tie points.

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

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■ This rating is applicable where the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

* The dc component must not exceed 1000 volts.

▲ The dc component must not exceed 100 volts.

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